

1 4. The method of claim 1 wherein receiving the request for the dynamically
2 allocated channel between the second node and the third node includes receiving a
3 request to change an allocated capacity of a communication channel previously allocated
4 to communication between the second node and the third node.

1 5. The method of claim 1 wherein allocating the portion of the second part of the
2 frames to said communication channel includes modifying allocated capacities of
3 multiple communication channels.

1 6. The method of claim 1 wherein the fixed part includes a third part that is
2 allocate for fixed-rate channels between the nodes.

1 7. The method of claim 1 wherein the communication system includes a SONET
2 network and each frame includes a Synchronous Payload Envelope (SPE), and wherein
3 allocating the fixed part of each frame includes allocating a portion of the SPE of each
4 frame.

1 8. The method of claim 1 wherein the portion of the SPE is the entire SPE.

1 9. The method of claim 1 wherein the portion of the SPE includes a virtual
2 tributary group.

1 10. The method of claim 1 wherein provisioning the communication system
2 further includes allocating a portion of the SPE to conventional SONET virtual
3 tributaries, whereby a portion of the communication capacity of the SONET network is
4 used for conventional communication on statically allocated virtual paths.

